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DATE: Sunday, September 17, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L7	l6 and (nafion or sulfonic acid)	2
<input type="checkbox"/>	L6	l5 and hydrogen peroxide	16
<input type="checkbox"/>	L5	((oxidation or oxidizing) near5 aldehyde with carboxylic acid).ti.	224
<input type="checkbox"/>	L4	(oxid\$7 near5 aldehyde with carboxylic acid).ti.	184
<input type="checkbox"/>	L3	L2 and (sulfonic acid or nafion)	41
<input type="checkbox"/>	L2	L1 and catalyst	147
<input type="checkbox"/>	L1	(prepar\$3 or produc\$4 or mak\$3 or synthesiz\$3 or manufactur\$3) with carboxylic acid same hydrogen peroxide same aldehyde	213

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NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
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NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAPLUS(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/CAPLUS enhanced with more pre-1907 records

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AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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=> s ep 0320346/pn
L1 1 EP 0320346/PN
(EP320346/PN)

=> d 11 iall

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:632288 CAPLUS
DOCUMENT NUMBER: 111:232288
ENTRY DATE: Entered STN: 23 Dec 1989
TITLE: Preparation of hydroxylated aromatic compounds by the Baeyer-Villiger reaction
INVENTOR(S): Gubelmann, Michel
PATENT ASSIGNEE(S): Rhone-Poulenc Chimie SA, Fr.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
INT. PATENT CLASSIF.:
MAIN: C07C037-055
CLASSIFICATION: 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 320346	A2	19890614	EP 1988-403044	19881202 <--
EP 320346	A3	19910502		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FR 2624507	A1	19890616	FR 1987-17323	19871211
FR 2624507	B1	19900615		
JP 01190645	A2	19890731	JP 1988-308979	19881208
US 4950809	A	19900821	US 1988-281408	19881208
CA 1303065	A1	19920609	CA 1988-585569	19881209
PRIORITY APPLN. INFO.:			FR 1987-17323	A 19871211
PATENT CLASSIFICATION CODES:				
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES		

EP 320346 ICM C07C037-055
 IPCI C07C0037-055 [ICM,4]; C07C0037-00 [ICM,4,C*]
 IPCR C07C0037-00 [I,C*]; C07C0037-055 [I,A]
 FR 2624507 IPCI C07C0039-27 [ICM,4]; C07C0037-01 [ICS,4]; C07C0037-00
 [ICS,4,C*]; C07C0039-00 [ICS,4]; C07C0039-08 [ICS,4];
 C07C0039-15 [ICS,4]; C07C0041-18 [ICS,4]; C07C0041-00
 [ICS,4,C*]; C07C0043-295 [ICS,4]; C07C0043-00
 [ICS,4,C*]
 JP 01190645 IPCR C07C0037-00 [I,C*]; C07C0037-055 [I,A]
 IPCI C07C0037-055 [ICM,4]; C07C0037-00 [ICM,4,C*];
 B01J0027-02 [ICS,4]; B01J0027-16 [ICS,4]; B01J0027-14
 [ICS,4,C*]; B01J0031-02 [ICS,4]; B01J0031-04 [ICS,4];
 C07C0039-08 [ICS,4]; C07C0039-15 [ICS,4]; C07C0039-27
 [ICS,4]; C07C0039-00 [ICS,4,C*]; C07C0041-26 [ICS,4];
 C07C0041-00 [ICS,4,C*]; C07C0043-295 [ICS,4];
 C07C0043-00 [ICS,4,C*]; C07B0061-00 [ICA,4]
 US 4950809 IPCI C07C0037-60 [ICM,5]; C07C0037-00 [ICM,5,C*]
 IPCR C07C0037-00 [I,C*]; C07C0037-055 [I,A]
 NCL 568/741.000; 568/771.000; 568/803.000
 CA 1303065 IPCI C07C0037-56 [ICM,5]; C07C0037-00 [ICM,5,C*];
 C07C0039-27 [ICS,5]; C07C0039-00 [ICS,5,C*];
 C07C0043-295 [ICS,5]; C07C0043-00 [ICS,5,C*]
 IPCR C07C0037-00 [I,C*]; C07C0037-055 [I,A]
 OTHER SOURCE(S): CASREACT 111:232288; MARPAT 111:232288

ABSTRACT:

The title compds. were prepared by Baeyer-Villiger reaction of aryl ketones or aldehydes. Treatment of Ac₂O with aqueous H₂O₂ containing H₂SO₄, followed by reaction with p-phenylbenzaldehyde, gave 91% p-phenylphenol.

SUPPL. TERM: phenol; hydroquinone; Baeyer Villiger arom ketone
 INDEX TERM: Oxidation
 (Baeyer-Villiger, of benzaldehyde and acetophenone
 derivs.)
 INDEX TERM: 67-36-7, p-Phenoxybenzaldehyde 92-91-1,
 p-Phenylacetophenone 403-42-9, p-Fluoroacetophenone
 459-57-4, p-Fluorobenzaldehyde 876-02-8 2615-11-4
 3218-36-8, p-Phenylbenzaldehyde 5031-78-7,
 p-Phenoxyacetophenone 10024-90-5 18625-79-1 24826-74-2
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (Baeyer-Villiger reaction of)
 INDEX TERM: 108-24-7, Acetic anhydride
 ROLE: PROC (Process)
 (conversion of, to peracetic acid)
 INDEX TERM: 79-21-0, Peracetic acid
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (oxidation by, of benzaldehyde or acetophenone in
 Baeyer-Villiger reaction)
 INDEX TERM: 92-69-3P, p-Phenylphenol 95-71-6P, Methylhydroquinone
 371-41-5P, p-Fluorophenol 831-82-3P, p-Phenoxyphenol
 1965-09-9P 5307-05-1P
 ROLE: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, via Baeyer-Villiger reaction)
 INDEX TERM: 7722-84-1, Hydrogen peroxide, reactions
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with acetic anhydride)

=> s ep 21525/pn

L2 1 EP 21525/PN
 (EP21525/PN)

=> d l2 iall

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:406529 CAPLUS
DOCUMENT NUMBER: 95:6529
ENTRY DATE: Entered STN: 12 May 1984
TITLE: Carboxylated compounds
INVENTOR(S): Lecloux, Andre; Declerck, Claude; Legrand, Franz
PATENT ASSIGNEE(S): Interlox, Belg.
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
INT. PATENT CLASSIF.: C07D315-00; C07C051-285
CLASSIFICATION: 23-17 (Aliphatic Compounds)
Section cross-reference(s): 24
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 21525	A1	19810107	EP 1980-200572	19800617 <--
EP 21525	B1	19840229		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
FR 2460285	A1	19810123	FR 1979-17307	19790629
FR 2460285	B1	19840518		
US 4353832	A	19821012	US 1980-157274	19800605
AT 6425	E	19840315	AT 1980-200572	19800617
BR 8003892	A	19810113	BR 1980-3892	19800623
ES 492861	A1	19810601	ES 1980-492861	19800627
JP 56015237	A2	19810214	JP 1980-89881	19800630
JP 01035814	B4	19890727		
PRIORITY APPLN. INFO.:			FR 1979-17307	A 19790629
			EP 1980-200572	A 19800617

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 21525	IC	C07D315-00; C07C051-285
	IPCI	C07D0315-00; C07C0051-285; C07C0051-16 [C*]
	IPCR	C07C0051-16 [I,C*]; C07C0051-285 [I,A]; C07D0315-00 [I,A]; C07D0315-00 [I,C*]
FR 2460285	IPCI	C07C0051-24; C07D0313-04; C07D0313-00 [C*]
	IPCR	C07C0051-16 [I,C*]; C07C0051-285 [I,A]; C07D0315-00 [I,A]; C07D0315-00 [I,C*]
US 4353832	IPCI	C07D0313-04; C07D0313-00 [C*]; C07C0051-16; C07C0051-235; C07C0067-39; C07C0067-00 [C*]
	IPCR	C07C0051-16 [I,C*]; C07C0051-285 [I,A]; C07D0315-00 [I,A]; C07D0315-00 [I,C*]
	NCL	549/272.000; 549/263.000; 549/273.000; 560/238.000; 562/531.000; 562/533.000
AT 6425	IPCI	C07D0315-00; C07C0051-285; C07C0051-16 [C*]; C07C0067-42; C07C0067-00 [C*]; C07C0053-126; C07C0053-00 [C*]
	IPCR	C07C0051-16 [I,C*]; C07C0051-285 [I,A]; C07C0053-00 [I,C*]; C07C0053-126 [I,A]; C07C0067-00 [I,C*]; C07C0067-42 [I,A]; C07D0315-00 [I,A]; C07D0315-00 [I,C*]
BR 8003892	IPCI	C07D0223-10; C07D0223-00 [C*]
	IPCR	C07C0051-16 [I,C*]; C07C0051-285 [I,A]; C07D0315-00 [I,A]; C07D0315-00 [I,C*]
ES 492861	IPCI	C07D0309-30; C07D0309-00 [C*]
JP 56015237	IPCI	C07C0051-285; C07C0051-16 [C*]; B01J0027-08; B01J0027-06 [C*]; C07C0067-42; C07C0067-00 [C*]; C07D0309-30; C07D0309-00 [C*]; C07D0313-04; C07D0313-00 [C*]
	IPCR	C07C0051-16 [I,C*]; C07C0051-285 [I,A]; C07D0315-00

[I,A]; C07D0315-00 [I,C*]

OTHER SOURCE(S): CASREACT 95:6529; MARPAT 95:6529

ABSTRACT:

Carbonyl compds. were treated with H₂O₂, and HF or metal salt catalyst, in an apparatus which is described to give carboxylated compds.; the reaction mixts. were kept in the liquid state under anhydrous conditions. Thus, the reactor was charged with cyclohexanone and SbF₅, heated to 363 K at 2 + 104 Pa to distil an aqueous azeotrope, and charged with H₂O₂ to give ϵ -caprolactone.

SUPPL. TERM: caprolactone; valerolactone; cycloalkanone oxidn catalyst
INDEX TERM: Oxidation catalysts
(metal halides and hydrogen fluoride, for cycloalkanones, lactones from)
INDEX TERM: Cycloalkanones
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of, catalysts for)
INDEX TERM: Lactones
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by oxidation of cycloalkanones, catalysts for)
INDEX TERM: 1309-64-4, uses and miscellaneous 1314-13-2, uses and miscellaneous 1314-60-9
ROLE: CAT (Catalyst use); USES (Uses)
(catalysts from hydrogen fluoride and, for oxidation of cyclohexanone)
INDEX TERM: 109-63-7
ROLE: CAT (Catalyst use); USES (Uses)
(catalysts, for oxidation of cycloalkanones and heptanal)
INDEX TERM: 373-57-9 7637-07-2, uses and miscellaneous 7646-78-8, uses and miscellaneous 7647-18-9 7664-39-3, uses and miscellaneous 7783-56-4 7783-62-2 7783-63-3 7783-71-3 7783-82-6 10241-05-1 13637-61-1 13637-68-8
ROLE: CAT (Catalyst use); USES (Uses)
(catalysts, for oxidation of cyclohexanone)
INDEX TERM: 7783-70-2
ROLE: CAT (Catalyst use); USES (Uses)
(catalysts, for oxidation of cyclohexanone and cyclohexenone)
INDEX TERM: 84-11-7D, catalyst containing molybdenum chloride oxide and 13814-74-9D, catalyst containing 9,10-phenanthrenequinone and
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(for oxidation of cyclohexanone)
INDEX TERM: 108-94-1, reactions 111-71-7 120-92-3 583-60-8 830-13-7 930-68-7
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of, catalysts for)
INDEX TERM: 111-14-8P 502-44-3P 542-28-9P 947-05-7P 2549-59-9P 2549-61-3P 35407-45-5P 57205-07-9P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

=> s jp 61-118343/pn

L3 1 JP 61-118343/PN
(JP61118343/PN)

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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:625790 CAPLUS
DOCUMENT NUMBER: 105:225790
ENTRY DATE: Entered STN: 26 Dec 1986
TITLE: Carboxylic acid derivatives
INVENTOR(S): Soma, Yoshe; Sano, Hiroshi

PATENT ASSIGNEE(S): Agency of Industrial Sciences and Technology, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 INT. PATENT CLASSIF.:
 MAIN: C07C053-126
 SECONDARY: B01J031-20; C07C051-10; C07C059-01; C07C067-36;
 C07C069-003
 CLASSIFICATION: 23-16 (Aliphatic Compounds)
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61118343	A2	19860605	JP 1984-239079	19841112 <--
JP 02025897	B4	19900606		
PRIORITY APPLN. INFO.:			JP 1984-239079	19841112

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 61118343	ICM	C07C053-126
	ICS	B01J031-20; C07C051-10; C07C059-01; C07C067-36; C07C069-003
	IPCI	C07C0053-126 [ICM,4]; C07C0053-00 [ICM,4,C*]; B01J0031-20 [ICS,4]; B01J0031-16 [ICS,4,C*]; C07C0051-10 [ICS,4]; C07C0059-01 [ICS,4]; C07C0059-00 [ICS,4,C*]; C07C0067-36 [ICS,4]; C07C0067-00 [ICS,4,C*]; C07C0069-003 [ICS,4]; C07C0069-00 [ICS,4,C*]
	IPCR	B01J0031-16 [I,C*]; B01J0031-20 [I,A]; C07C0051-10 [I,A]; C07C0051-10 [I,C*]; C07C0053-00 [I,C*]; C07C0053-126 [I,A]; C07C0059-00 [I,C*]; C07C0059-01 [I,A]; C07C0067-00 [I,C*]; C07C0067-36 [I,A]; C07C0069-00 [I,C*]; C07C0069-003 [I,A]

ABSTRACT:

R2R3R4CCO2R1 (R1, R2, R3 = H, alkyl; R4 = HO, alkyl) are prepared by carbonylation of olefins, alcs., or aldehydes over Cu or Ag carbonyl complex catalysts over solid acid supports. Thus, CO was introduced to a mixture of 1.5 g AgF and BF3.H2O complex with stirring to give a Ag carbonyl ion solution, with which was impregnated 6 g Nafion-117 to give a catalyst, over which was passed 10 mmol 1-hexene in hexane and CO to give a mixture of 3:1 PrMe2CCO2H and Et2MeCCO2H.

SUPPL. TERM: carbonylation olefin alc aldehyde catalyst; carboxylic acid; carbonyl silver copper catalyst carbonylation

INDEX TERM: Carbonylation
 (of olefins, alcs., and aldehydes, carboxylic acid derivs. from)

INDEX TERM: Carbonylation catalysts
 (silver or copper carbonyl compds., for olefins, alcs., and aldehydes)

INDEX TERM: 111-66-0 123-96-6 592-41-6, reactions 30525-89-4
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (carbonylation of)

INDEX TERM: 7440-22-4D, carbonyl compds. 7440-50-8D, carbonyl compds.
 ROLE: CAT (Catalyst use); USES (Uses)
 (catalysts, for carbonylation of olefins, alcs., and aldehydes)

INDEX TERM: 1185-29-1P 1185-39-3P 14250-73-8P 19889-37-3P
 31113-56-1P
 ROLE: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

=> s jp 48-417/pn
L4 1 JP 48-417/PN
(JP48000417/PN)

=> d l4 iall

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:83822 CAPLUS
DOCUMENT NUMBER: 78:83822
ENTRY DATE: Entered STN: 12 May 1984
TITLE: α,β -Unsaturated acids
INVENTOR(S): Shiraishi, Tatsuo; Haga, Takeshi; Motohashi, Tadakazu;
Shindo, Tadashi
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
US PATENT CLASSIF.: 16B631.1
CLASSIFICATION: 23-12 (Aliphatic Compounds)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48000417	B4	19730106	JP 1971-34893	19710521 <--
JP 50029446		19750325	JP 1973-80060	19730716

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 48000417	INCL	16B631.1
JP 50029446	IPCR	B23K0011-06 [N,A]; B23K0011-06 [N,C*]

ABSTRACT:

An oxidation of α,β -unsatd. aldehydes in an organic solvent was carried out using a metal alkylarenesulfonate (e.g. Zn laurylbenzenesulfonate, Co p-tosylate, Co benzenesulfonate, Co naphthalenesulfonate) as a catalyst. E.g., acrolein in MeCOEt was oxidized with O at 40° for 3 hr using Ni laurylbenzenesulfonate in C₆H₆ to give 99% acrylic acid.

SUPPL. TERM: unsatd acid catalytic manufd; metal alkyl arenesulfonate catalyst
INDEX TERM: Oxidation catalysts
(metal alkylarene sulfonates, for α,β -unsaturated aldehydes)
INDEX TERM: 31017-43-3
ROLE: CAT (Catalyst use); USES (Uses)
(catalysts, for oxidation of α,β -unsaturated aldehydes)
INDEX TERM: 79-10-7P, preparation
ROLE: PREP (Preparation)
(from catalytic oxidation of α,β -unsaturated aldehydes)
INDEX TERM: 107-02-8, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of, with nickel alkyl arene sulfonates)

=> s jp 2003-12633/pn
L5 1 JP 2003-12633/PN
(JP2003012633/PN)

=> d l5 iall

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:34912 CAPLUS
DOCUMENT NUMBER: 138:72993
ENTRY DATE: Entered STN: 15 Jan 2003
TITLE: Preparation of tertiary amine N-oxides
INVENTOR(S): Tanaka, Masato; Sato, Kazuhiko; Usui, Yoko
PATENT ASSIGNEE(S): Japan Science and Technology Corporation, Japan;
National Institute of Advanced Industrial Science and
Technology
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
INT. PATENT CLASSIF.:
MAIN: C07C291-04
SECONDARY: B01J031-10; C07B061-00
CLASSIFICATION: 23-4 (Aliphatic Compounds)
Section cross-reference(s): 46
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003012633	A2	20030115	JP 2001-203338	20010704 <--
JP 3559004	B2	20040825		
PRIORITY APPLN. INFO.:			JP 2001-203338	20010704

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2003012633	ICM	C07C291-04
	ICS	B01J031-10; C07B061-00
	IPCI	C07C0291-04 [ICM,7]; C07C0291-00 [ICM,7,C*]; B01J0031-10 [ICS,7]; B01J0031-06 [ICS,7,C*]; C07B0061-00 [ICS,7]
	IPCR	B01J0031-06 [I,C*]; B01J0031-10 [I,A]; C07B0061-00 [N,A]; C07B0061-00 [N,C*]; C07C0291-00 [I,C*]; C07C0291-04 [I,A]

OTHER SOURCE(S): MARPAT 138:72993

ABSTRACT:

Title compds., useful as surfactants, intermediates for oxidizing agents, etc., are prepared by oxidation of tertiary amines by H2O2 using SO3H-containing polymers as catalysts. N,N-dimethyldodecylamine was oxidized by H2O2 in the presence of Nafion NR 50 at 60° for 2 h to give 75.2% N,N-dimethyldodecylamine N-oxide.

SUPPL. TERM: tertiary amine oxide prepn; oxidn tertiary amine sulfo
polymer catalyst; hydrogen peroxide oxidn tertiary amine
catalyst
INDEX TERM: Sulfonic acids, uses
ROLE: CAT (Catalyst use); USES (Uses)
of (polymers; preparation of tertiary amine oxides by oxidation
of amines by H2O2 using SO3H-containing polymer catalysts)
INDEX TERM: Oxidation catalysts
(preparation of tertiary amine oxides by oxidation of amines
by H2O2 using SO3H-containing polymer catalysts)
INDEX TERM: Fluoropolymers, uses
Polymers, uses
ROLE: CAT (Catalyst use); USES (Uses)
oxidation (sulfo-containing; preparation of tertiary amine oxides by
of amines by H2O2 using SO3H-containing polymer catalysts)

INDEX TERM: Amine oxides
 ROLE: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (tertiary; preparation of tertiary amine oxides by oxidation
 of amines by H2O2 using SO3H-containing polymer catalysts)

INDEX TERM: Amines, reactions
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (tertiary; preparation of tertiary amine oxides by oxidation
 of amines by H2O2 using SO3H-containing polymer catalysts)

INDEX TERM: 9003-53-6D, Polystyrene, sulfo derivs. 9003-70-7D,
 Divinylbenzene-styrene copolymer, sulfo derivs.
 118473-68-0, Nafion NR 50
 ROLE: CAT (Catalyst use); USES (Uses)
 (preparation of tertiary amine oxides by oxidation of amines
 by H2O2 using SO3H-containing polymer catalysts)

INDEX TERM: 1643-20-5P, N,N-Dimethyldodecylamine N-oxide 2530-46-3P,
 N-Dodecylmorpholine N-oxide
 ROLE: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of tertiary amine oxides by oxidation of amines
 by H2O2 using SO3H-containing polymer catalysts)

INDEX TERM: 112-18-5, N,N-Dimethyldodecylamine 1541-81-7,
 N-Dodecylmorpholine 7722-84-1, Hydrogen peroxide,
 reactions
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of tertiary amine oxides by oxidation of amines
 by H2O2 using SO3H-containing polymer catalysts)

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NEWS	5	MAY 11	KOREAPAT updates resume
NEWS	6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS	7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAPLUS and USPATFULL/USPAT2
NEWS	8	MAY 30	The F-Term thesaurus is now available in CA/CAPLUS
NEWS	9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS	10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
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NEWS	13	JUL 14	FSTA enhanced with Japanese patents
NEWS	14	JUL 19	Coverage of Research Disclosure reinstated in DWPI
NEWS	15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS	16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS	17	AUG 30	CA(SM)/CAPLUS(SM) Austrian patent law changes
NEWS	18	SEP 11	CA/CAPLUS enhanced with more pre-1907 records
NEWS EXPRESS		JUNE 30	CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
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FILE LAST UPDATED: 15 Sep 2006 (20060915/ED)

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=> s (produc? or mak? or prepar? or manufactu? or synthesi?) (s) carboxylic acid
(p) aldehyde and hydrogen peroxide

4334207 PRODUC?
960975 PRODN
530 PRODNS
961155 PRODN
(PRODN OR PRODNS)
4798273 PRODUC?
(PRODUC? OR PRODN)
694641 MAK?
1683402 PREPAR?
125397 PREP
2201 PREPS
127392 PREP
(PREP OR PREPS)
2032585 PREPD
17 PREPDS
2032597 PREPD
(PREPD OR PREPDS)
128212 PREPG
12 PREPGS
128223 PREPG
(PREPG OR PREPGS)
2741868 PREPN
205696 PREPNS
2897028 PREPN
(PREPN OR PREPNS)
4809079 PREPAR?
(PREPAR? OR PREP OR PREPD OR PREPG OR PREPN)
606035 MANUFACTU?
1048343 MANUF
1473 MANUFS
1049465 MANUF
(MANUF OR MANUFS)
234596 MANUFD

182433 MANUFG
 1 MANUFGS
 182433 MANUFG
 (MANUFG OR MANUFGS)
 1441248 MANUFACTU?
 (MANUFACTU? OR MANUF OR MANUFD OR MANUFG)
 1528767 SYNTHESI?
 241610 CARBOXYLIC
 47 CARBOXYLICS
 241629 CARBOXYLIC
 (CARBOXYLIC OR CARBOXYLICS)
 4212489 ACID
 1540685 ACIDS
 4707010 ACID
 (ACID OR ACIDS)
 222553 CARBOXYLIC ACID
 (CARBOXYLIC(W)ACID)
 106747 ALDEHYDE
 103439 ALDEHYDES
 165451 ALDEHYDE
 (ALDEHYDE OR ALDEHYDES)
 2864 (PRODUC? OR MAK? OR PREPAR? OR MANUFACTU? OR SYNTHESI?) (S)
 CARBOXYLIC ACID (P) ALDEHYDE
 944099 HYDROGEN
 5829 HYDROGENS
 947355 HYDROGEN
 (HYDROGEN OR HYDROGENS)
 206092 PEROXIDE
 46401 PEROXIDES
 224272 PEROXIDE
 (PEROXIDE OR PEROXIDES)
 111221 HYDROGEN PEROXIDE
 (HYDROGEN(W)PEROXIDE)
 L1 68 (PRODUC? OR MAK? OR PREPAR? OR MANUFACTU? OR SYNTHESI?) (S)
 CARBOXYLIC ACID (P) ALDEHYDE AND HYDROGEN PEROXIDE

=> s l1 and catalyst
 734947 CATALYST
 737630 CATALYSTS
 943403 CATALYST
 (CATALYST OR CATALYSTS)
 L2 39 L1 AND CATALYST

=> s l2 and nafion
 9681 NAFION
 31 NAFIONS
 9685 NAFION
 (NAFION OR NAFIONS)
 L3 1 L2 AND NAFION

=> s l3 ibib ab
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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:534161 CAPLUS
 DOCUMENT NUMBER: 141:71284
 TITLE: Process for preparation of carboxylic acids by
 oxidation

INVENTOR(S): Sato, Kazuhiko; Usui, Youko
 PATENT ASSIGNEE(S): National Institute of Advanced Industrial Science and
 Technology, Japan
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004054956	A1	20040701	WO 2003-JP14360	20031112
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004196692	A2	20040715	JP 2002-365964	20021218
AU 2003280737	A1	20040709	AU 2003-280737	20031112
CN 1729154	A	20060201	CN 2003-80107031	20031112
US 2006167311	A1	20060727	US 2005-539209	20050617
PRIORITY APPLN. INFO.:			JP 2002-365964	A 20021218
			WO 2003-JP14360	W 20031112

OTHER SOURCE(S): CASREACT 141:71284; MARPAT 141:71284

AB This invention pertains to a method for producing
 carboxylic acids, which comprises reacting an
 aldehyde-containing oily solution with an aqueous hydrogen
 peroxide solution in the presence of a catalyst comprising
 a polymer compound having a sulfonic acid group in a side chain in a
 heterogeneous system. For example, octanal was treated with 30% aqueous H2O2
 in the presence of Nafion NR50 to give octanoic acid (93%). The
 method allows the prodn. of a carboxylic acid
 under mild conditions having little adverse effect including toxicity on
 the environment or a human body, with simple and easy operations, without
 the need of the operation for removing a solvent, with good efficiency.

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L1 68 S (PRODUC? OR MAK? OR PREPAR? OR MANUFACTU? OR SYNTHESI?) (S) C
 L2 39 S L1 AND CATALYST
 L3 1 S L2 AND NAFION

=> s 12 and polymer
 1085560 POLYMER
 883781 POLYMERS
 1463857 POLYMER
 (POLYMER OR POLYMERS)

L4 2 L2 AND POLYMER

=> s 14 not 13

L5 1 L4 NOT L3

=> d 15 ibib ab

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:945623 CAPLUS

DOCUMENT NUMBER: 138:286992

TITLE: Polystyrene-bound phenylseleninic acid: catalytic oxidation of aldehydes to carboxylic acids with hydrogen peroxide

AUTHOR(S): Qian, Hao; Shao, Li-Xiong; Huang, Xian

CORPORATE SOURCE: Department of Chemistry, Zhejiang University, Hangzhou, 310028, Peop. Rep. China

SOURCE: Journal of Chemical Research, Synopses (2002), (10), 514-515

CODEN: JRPSDC; ISSN: 0308-2342

PUBLISHER: Science Reviews

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:286992

AB Polystyrene-bound phenylseleninic acid was prepd. conveniently and aldehydes were catalytically oxidized to carboxylic acids with hydrogen peroxide using this polymer as catalyst.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> e phenylseleninic acid/cn

E1	1	PHENYLSELENENYL TRIFLATE/CN
E2	1	PHENYLSELENIC ACID, POTASSIUM SALT/CN
E3	1 -->	PHENYLSELENINIC ACID/CN
E4	1	PHENYLSELENINIC ANHYDRIDE/CN
E5	1	PHENYLSELENINYL/CN
E6	1	PHENYLSELENIUM AZIDE/CN
E7	1	PHENYLSELENIUM BROMIDE/CN
E8	1	PHENYLSELENIUM CHLORIDE/CN
E9	1	PHENYLSELENIUM MONOCHLORIDE/CN
E10	1	PHENYLSELENIUM TRIBROMIDE/CN
E11	1	PHENYLSELENIUM TRICHLORIDE/CN
E12	1	PHENYLSELENIUM TRIFLUORIDE/CN

=> d e3

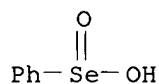
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L6 1 "PHENYLSELENINIC ACID"/CN

=> d l6

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 6996-92-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzeneseleninic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Benzeneselenic acid
CN Phenylseleninic acid
MF C6 H6 O2 Se
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, GMELIN*, MEDLINE, TOXCENTER
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

146 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
146 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e styrene/cn

E1	1	STYRENAC AF 50/CN
E2	1	STYRENATED PHENOL/CN
E3	1 -->	STYRENE/CN
E4	1	STYRENE A-BORONIC ACID/CN

E5	1	STYRENE A-CHLOROXYDRIN/CN
E6	1	STYRENE B-BROMOXYDRIN/CN
E7	1	STYRENE B-CHLOROXYDRIN/CN
E8	1	STYRENE 1',2'-OXIDE/CN
E9	1	STYRENE 3,4-OXIDE/CN
E10	1	STYRENE 4-VINYLBENZOIC ACID COPOLYMER SODIUM SALT/CN
E11	1	STYRENE 7,8-OXIDE/CN
E12	1	STYRENE ACRYLIC ACID/CN

=> s e3

L7 1 STYRENE/CN

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 100-42-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzene, ethenyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Styrene (8CI)

OTHER NAMES:

CN Cinnamene

CN Ethenylbenzene

CN NSC 62785

CN Phenethylene

CN Phenylethene

CN Phenylethylene

CN Styrol

CN Styrole

CN Styrolene

CN Styropol SO

CN Vinylbenzene

CN Vinylbenzol

FS 3D CONCORD

DR 79637-11-9

MF C8 H8

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

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H₂C=CH-Ph

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16461 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

63758 REFERENCES IN FILE CAPLUS (1907 TO DATE)

12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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*****
*                                     *
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*                                     *
*****
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=> D ACC 138:286992 ALL

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ANSWER 1 CASREACT COPYRIGHT 2006 ACS on STN
 AN 138:286992 CASREACT
 TI Polystyrene-bound phenylseleninic acid: catalytic oxidation of aldehydes to carboxylic acids with hydrogen peroxide
 AU Qian, Hao; Shao, Li-Xiong; Huang, Xian
 CS Department of Chemistry, Zhejiang University, Hangzhou, 310028, Peop. Rep. China
 SO Journal of Chemical Research, Synopses (2002), (10), 514-515
 CODEN: JRPSDC; ISSN: 0308-2342
 PB Science Reviews
 DT Journal
 LA English
 CC 21-2 (General Organic Chemistry)
 AB Polystyrene-bound phenylseleninic acid was prepared conveniently and aldehydes were catalytically oxidized to carboxylic acids with hydrogen peroxide using this polymer as catalyst.

ST carboxylic acid prepn; oxidn aldehyde polystyrene bound phenylseleninic acid catalyst

IT Oxidation
Oxidation catalysts
(preparation of carboxylic acids by hydrogen peroxide oxidation of aldehydes catalyzed by polystyrene-bound phenylseleninic acid)

IT Aldehydes, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of carboxylic acids by hydrogen peroxide oxidation of aldehydes catalyzed by polystyrene-bound phenylseleninic acid)

IT Carboxylic acids, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of carboxylic acids by hydrogen peroxide oxidation of aldehydes catalyzed by polystyrene-bound phenylseleninic acid)

IT 6996-92-5DP, Phenylseleninic acid, polystyrene-bound
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
USES (Uses)
(preparation of carboxylic acids by hydrogen peroxide oxidation of aldehydes catalyzed by polystyrene-bound phenylseleninic acid)

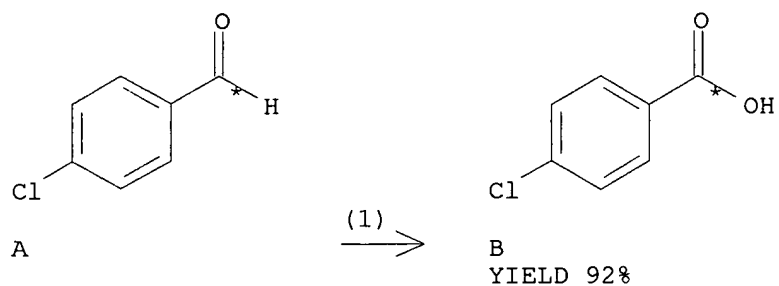
IT 50-84-0, 2,4-Dichlorobenzoic acid 62-23-7, p-Nitrobenzoic acid
65-85-0, Benzoic acid, reactions 74-11-3, p-Chlorobenzoic acid
88-14-2, 2-Furoic acid 98-01-1, 2-Furaldehyde, reactions 99-94-5,
p-Methylbenzoic acid 100-09-4, p-Methoxybenzoic acid 100-10-7,
p-Dimethylaminobenzaldehyde 100-52-7, Benzaldehyde, reactions
103-82-2, Phenylacetic acid, reactions 104-87-0, p-Methylbenzaldehyde
104-88-1, p-Chlorobenzaldehyde, reactions 107-92-6, Butanoic acid,
reactions 109-52-4, Pentanoic acid, reactions 110-62-3, Pentanal
122-78-1, Phenylacetaldehyde 123-11-5, p-Methoxybenzaldehyde, reactions
123-72-8, Butanal 456-22-4, p-Fluorobenzoic acid 459-57-4,
p-Fluorobenzaldehyde 503-74-2, Isopentanoic acid 555-16-8,
p-Nitrobenzaldehyde, reactions 590-86-3, Isopentanal 619-84-1,
p-Dimethylaminobenzoic acid 628-39-7, Diethyl diselenide 874-42-0,
2,4-Dichlorobenzaldehyde 7722-84-1, Hydrogen peroxide, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of carboxylic acids by hydrogen peroxide oxidation of aldehydes catalyzed by polystyrene-bound phenylseleninic acid)

IT 17774-38-8DP, polystyrene-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of carboxylic acids by hydrogen peroxide oxidation of aldehydes catalyzed by polystyrene-bound phenylseleninic acid)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

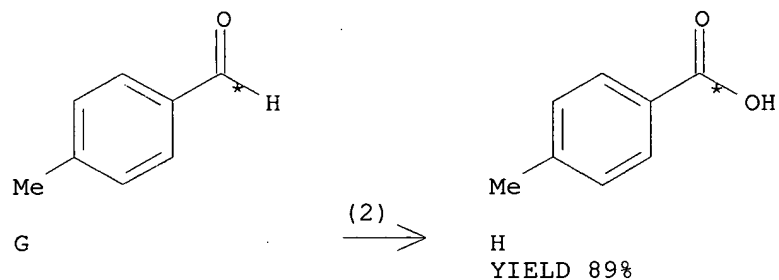
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- (1) Berkessel, A; Tetrahedron Lett 2001, V42, P2293 CAPLUS
- (2) Choi, J; Tetrahedron Lett 1978, V29, P1967
- (3) Farrall, M; J Org Chem 1976, V41, P3877 CAPLUS
- (4) Grieco, P; J Chem Soc, Chem Commun 1977, P870 CAPLUS
- (5) Grieco, P; J Org Chem 1977, V42, P2034 CAPLUS
- (6) Larock, R; Comprehensive Organic Transformations -- A Guide to Functional Group Preparations 1989, P838
- (7) Nicolaou, K; J Chem Soc, Chem Commun 1998, P1947 CAPLUS
- (8) Reich, H; Synthesis 1978, P299 CAPLUS
- (9) Taylor, R; J Org Chem 1983, V48, P5160 CAPLUS
- (10) Zundel, G; Angew Chem, Int Ed Engl 1969, V8, P499 CAPLUS



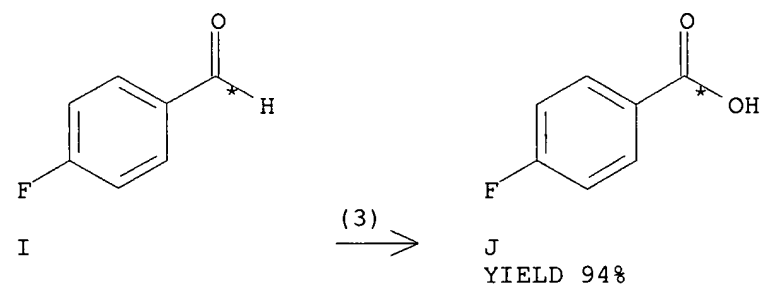
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PRO B 74-11-3
CAT 6996-92-5D PhSeO2H
SOL 109-99-9 THF, 7732-18-5 Water
CON 8 hours, 25 deg C
NTE solid-supported catalyst

RX(2) OF 16 G ==> H



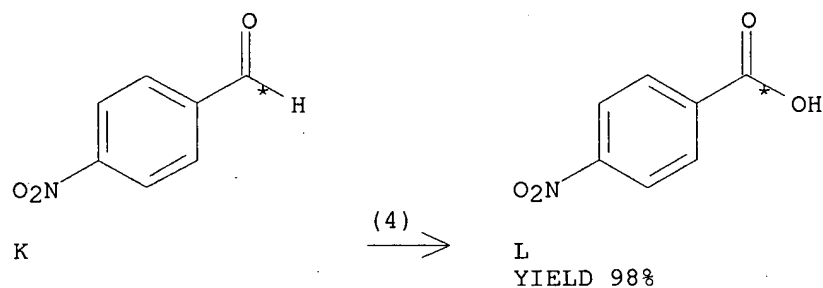
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PRO H 99-94-5
CAT 6996-92-5D PhSeO2H
SOL 109-99-9 THF, 7732-18-5 Water
CON 24 hours, 25 deg C
NTE solid-supported catalyst

RX(3) OF 16 I ==> J



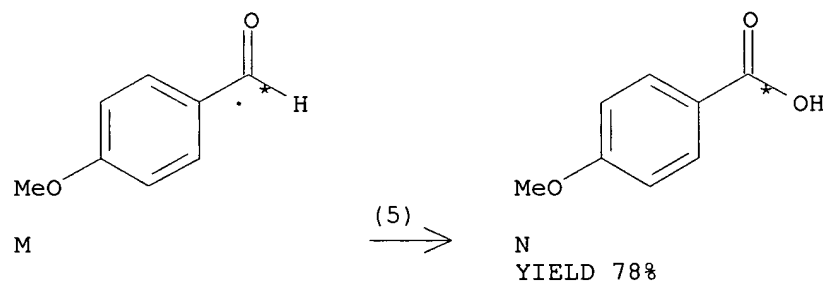
RX(3) RCT I 459-57-4
 RGT C 7722-84-1 H2O2
 PRO J 456-22-4
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 20 hours, 25 deg C
 NTE solid-supported catalyst

RX(4) OF 16 K ==> L



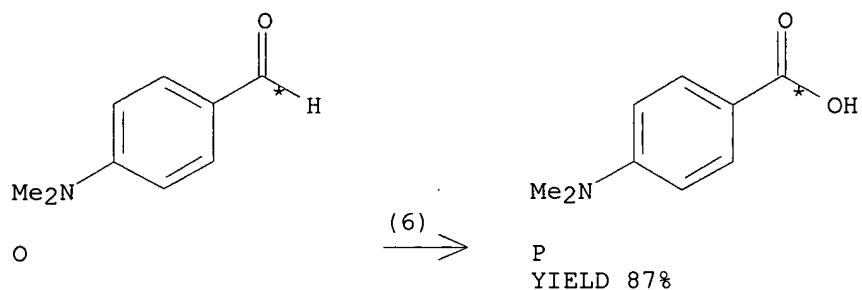
RX(4) RCT K 555-16-8
 RGT C 7722-84-1 H2O2
 PRO L 62-23-7
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 8 hours, 25 deg C
 NTE solid-supported catalyst

RX(5) OF 16 M ==> N



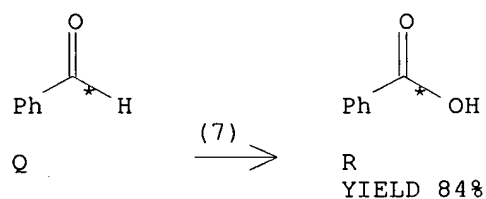
RX(5) RCT M 123-11-5
 RGT C 7722-84-1 H2O2
 PRO N 100-09-4
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 40 hours, 25 deg C
 NTE solid-supported catalyst

RX(6) OF 16 O ==> P



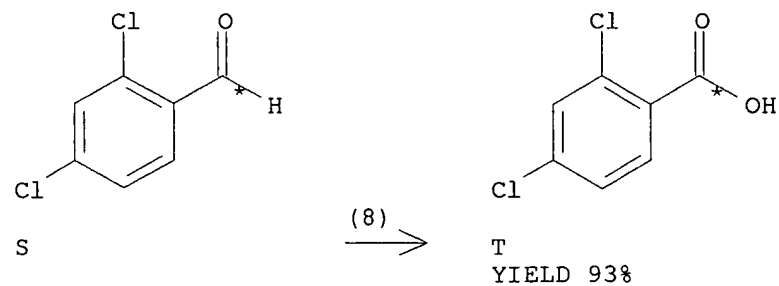
RX(6) RCT O 100-10-7
 RGT C 7722-84-1 H2O2
 PRO P 619-84-1
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 24 hours, 25 deg C
 NTE solid-supported catalyst

RX(7) OF 16 Q ==> R



RX(7) RCT Q 100-52-7
 RGT C 7722-84-1 H2O2
 PRO R 65-85-0
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 20 hours, 25 deg C
 NTE solid-supported catalyst

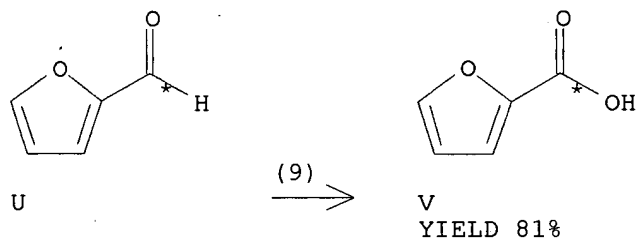
RX(8) OF 16 S ==> T



RX(8) RCT S 874-42-0
 RGT C 7722-84-1 H2O2

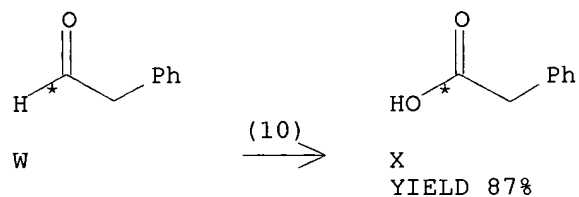
PRO T 50-84-0
 CAT 6996-92-5D PhSeO₂H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 12 hours, 25 deg C
 NTE solid-supported catalyst

RX(9) OF 16 U ==> V



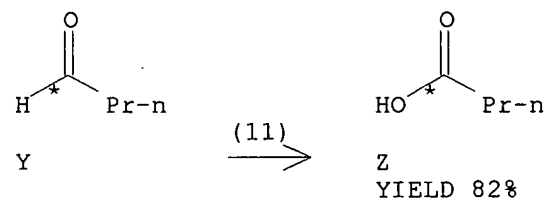
RX(9) RCT U 98-01-1
 RGT C 7722-84-1 H₂O₂
 PRO V 88-14-2
 CAT 6996-92-5D PhSeO₂H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 24 hours, 25 deg C
 NTE solid-supported catalyst

RX(10) OF 16 W ==> X



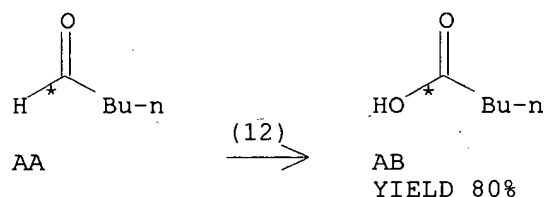
RX(10) RCT W 122-78-1
 RGT C 7722-84-1 H₂O₂
 PRO X 103-82-2
 CAT 6996-92-5D PhSeO₂H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 6 hours, 25 deg C
 NTE solid-supported catalyst

RX(11) OF 16 Y ==> Z



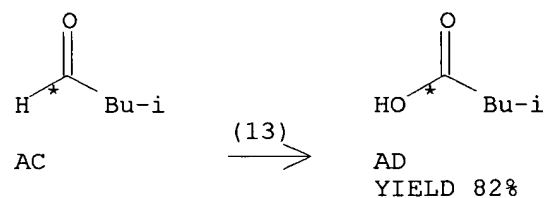
RX(11) RCT Y 123-72-8
 RGT C 7722-84-1 H2O2
 PRO Z 107-92-6
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 6 hours, 25 deg C
 NTE solid-supported catalyst

RX(12) OF 16 AA ==> AB



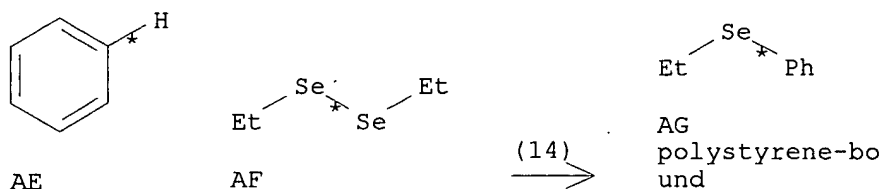
RX(12) RCT AA 110-62-3
 RGT C 7722-84-1 H2O2
 PRO AB 109-52-4
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 6 hours, 25 deg C
 NTE solid-supported catalyst

RX(13) OF 16 AC ==> AD



RX(13) RCT AC 590-86-3
 RGT C 7722-84-1 H2O2
 PRO AD 503-74-2
 CAT 6996-92-5D PhSeO2H
 SOL 109-99-9 THF, 7732-18-5 Water
 CON 6 hours, 25 deg C
 NTE solid-supported catalyst

RX(14) OF 16 AE + AF ==> AG...



RX(14) RCT AE 71-43-2

STAGE(1)

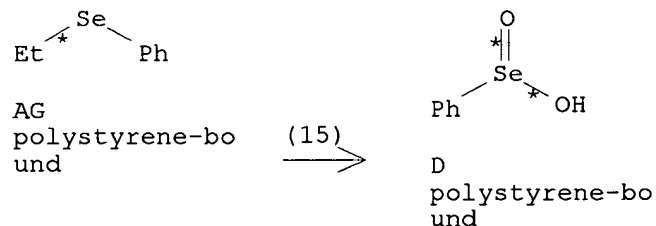
RGT AH 110-18-9 TMEDA, AI 109-72-8 BuLi
 SOL 110-82-7 Cyclohexane
 CON SUBSTAGE(1) room temperature
 SUBSTAGE(2) 6 hours, 65 deg C

STAGE(2)

RCT AF 628-39-7
 SOL 109-99-9 THF
 CON SUBSTAGE(1) 0 deg C
 SUBSTAGE(2) 30 minutes, 0 deg C
 SUBSTAGE(3) 0 deg C -> 25 deg C
 SUBSTAGE(4) 30 minutes, 25 deg C

PRO AG 17774-38-8D
 NTE attached to resin

RX(15) OF 16 ...AG ==> D



RX(15) RCT AG 17774-38-8D
 RGT C 7722-84-1 H2O2
 PRO D 6996-92-5D
 SOL 7732-18-5 Water, 109-99-9 THF
 CON SUBSTAGE(1) room temperature
 SUBSTAGE(2) 30 minutes, room temperature
 SUBSTAGE(3) 2 hours, 60 deg C
 NTE solid-supported reaction

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
 SET COMMAND COMPLETED

=> file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE
 ENTRY
 10.34

TOTAL
 SESSION
 62.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.71	-2.21

FILE 'CAPLUS' ENTERED AT 14:59:38 ON 17 SEP 2006
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FILE COVERS 1907 - 17 Sep 2006 VOL 145 ISS 13
 FILE LAST UPDATED: 15 Sep 2006 (20060915/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> d his

(FILE 'HOME' ENTERED AT 14:47:17 ON 17 SEP 2006)

FILE 'CAPLUS' ENTERED AT 14:47:30 ON 17 SEP 2006

L1	68 S (PRODUC? OR MAK? OR PREPAR? OR MANUFACTU? OR SYNTHESI?) (S) C
L2	39 S L1 AND CATALYST
L3	1 S L2 AND NAFION
L4	2 S L2 AND POLYMER
L5	1 S L4 NOT L3

FILE 'REGISTRY' ENTERED AT 14:54:18 ON 17 SEP 2006

	E PHENYLSELENINIC ACID/CN
L6	1 S E3
	E STYRENE/CN
L7	1 S E3

FILE 'CASREACT' ENTERED AT 14:57:40 ON 17 SEP 2006

SET NOTICE DISPLAY 1
 SET NOTICE LOGIN DISPLAY

FILE 'CAPLUS' ENTERED AT 14:59:38 ON 17 SEP 2006

=> s 12 and sulfonic acid

77329	SULFONIC
20	SULFONICS
77343	SULFONIC
	(SULFONIC OR SULFONICS)
4212489	ACID
1540685	ACIDS
4707010	ACID
	(ACID OR ACIDS)
72593	SULFONIC ACID

(SULFONIC(W)ACID)
L8 1 L2 AND SULFONIC ACID

=> s l8 not l3

L9 0 L8 NOT L3

=> s l2 and sulfonic

77329 SULFONIC

20 SULFONICS

77343 SULFONIC

(SULFONIC OR SULFONICS)

L10 1 L2 AND SULFONIC

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.15

70.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.21

FILE 'REGISTRY' ENTERED AT 15:02:51 ON 17 SEP 2006
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STRUCTURE FILE UPDATES: 15 SEP 2006 HIGHEST RN 907161-02-8
DICTIONARY FILE UPDATES: 15 SEP 2006 HIGHEST RN 907161-02-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

Effective September 24, 2006, Concord 3D coordinates will no longer
be available. Please contact CAS Customer Care
(<http://www.cas.org/supp.html>) if you have a need for 3D coordinates.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> e benzoic acid/cn

E1 1 BENZOIC 4-METHYLBENZOIC ANHYDRIDE/CN

E2 1 BENZOIC 4-NITROBENZOIC ANHYDRIDE/CN

E3 1 --> BENZOIC ACID/CN

E4 1 BENZOIC ACID N,N,N',N'-TETRAKIS(2-HYDROXYPROPYL)ETHYLENEDIA
MINE SALT/CN

E5 1 BENZOIC ACID (((((S)-3-(4-(1,1-DIOXOHEXAHYDROTHIOPYRAN-4-YL)
-3-FLUOROPHENYL)-2-OXOOXAZOLIDIN-5-YL)METHYL)CARBAMOYL)OXY)M
ETHYL ESTER/CN

E6 1 BENZOIC ACID ((ETHYLSULFANYL)CARBONYL)OXY)METHYL ESTER/CN

E7 1 BENZOIC ACID ((2R)-1-(4-(3-(2-METHOXYBENZYOXY)PROPOXY)PHENY

E8 1 L)-6-OXOPIPERAZIN-2-YL)METHYL ESTER/CN
 BENZOIC ACID ((4-FLUOROPHENYL)-(TETRAHYDROFURAN-2-YL)METHYL)
 ESTER/CN
 E9 1 BENZOIC ACID ((ACETYL((R)-3-(4-(1,1-DIOXOHEXAHYDROTHIOPYRAN
 -4-YL)-3-FLUOROPHENYL)-2-OXOOXAZOLIDIN-5-YL)METHYL) CARBAMOYL
)OXY)METHYL ESTER/CN
 E10 1 BENZOIC ACID (1-FERROCENYLETHYLIDENE)HYDRAZIDE/CN
 E11 1 BENZOIC ACID (2,5-DICHLOROPHENYL)HYDRAZIDE/CN
 E12 1 BENZOIC ACID (2,6-DICHLOROBENZYLIDENE)HYDRAZIDE/CN

=> s e3

L11 1 "BENZOIC ACID"/CN

=> d l11

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 65-85-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzoic acid (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Benzenecarboxylic acid

CN Benzeneformic acid

CN Benzenemethanoic acid

CN Carboxybenzene

CN Dracylic acid

CN E 210

CN HA 1

CN HA 1 (acid)

CN MENNO-Florades

CN NSC 149

CN Phenylcarboxylic acid

CN Phenylformic acid

CN Purox B

CN Retarder BA

CN Retardex

CN Salvo liquid

CN Solvo powder

CN Tenn-Plas

FS 3D CONCORD

DR 8013-63-6, 331473-08-6

MF C7 H6 O2

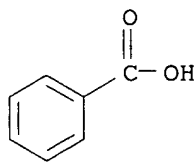
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
 BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
 DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
 PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT,
 USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

33431 REFERENCES IN FILE CA (1907 TO DATE)
3273 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
33527 REFERENCES IN FILE CAPLUS (1907 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e benzaldehyde/cn

E1 1 BENZALDAZINE-1,3-BIS(3-ISOCYANATO-4-METHYLPHENYLENE) PARABANI
C ACID COPOLYMER/CN
E2 1 BENZALDAZINECOBALT IODIDE/CN
E3 1 --> BENZALDEHYDE/CN
E4 1 BENZALDEHYDE (2-CARBOXY-5-SULFOPHENYL) HYDRAZONE/CN
E5 1 BENZALDEHYDE (2-FLUOROPHENYL) HYDRAZONE/CN
E6 1 BENZALDEHYDE (2-METHYLALLYL) HYDRAZONE/CN
E7 1 BENZALDEHYDE (4-CHLOROBENZOYL) HYDRAZONE/CN
E8 1 BENZALDEHYDE (4-METHYLBENZOYL) HYDRAZONE/CN
E9 1 BENZALDEHYDE (4-PYRIDYLCARBONYL) HYDRAZONE/CN
E10 1 BENZALDEHYDE (5,6-DIPHENYL-1,2,4-TRIAZIN-3-YL) HYDRAZONE/CN
E11 1 BENZALDEHYDE (5-PHENYL-1,2,4-TRIAZOL-3-YL) HYDRAZONE/CN
E12 1 BENZALDEHYDE (BENZYLOXYCARBONYL) HYDRAZONE/CN

=> s e3

L12 1 BENZALDEHYDE/CN

=> d l12

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 100-52-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzaldehyde (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Artificial Almond Oil

CN Benzaldehyde FFC

CN Benzenecarbonal

CN Benzenecarboxaldehyde

CN Benzoic acid aldehyde

CN Benzoic aldehyde

CN NSC 7917

CN Phenylformaldehyde

CN Phenylmethanal

FS 3D CONCORD

MF C7 H6 O

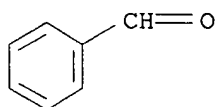
CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA,
CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST,
CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT,
ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT,
IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS,
RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2,
USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

55763 REFERENCES IN FILE CA (1907 TO DATE)
 916 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 55989 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e hydrogen peroxide/cn

E1	1	HYDROGEN PENTYL MALEATE-MALEIC ANHYDRIDE-STYRENE POLYMER/CN
E2	1	HYDROGEN PEROXIDASE 9 (HUMAN CLONE PBS-0082H01)/CN
E3	1 -->	HYDROGEN PEROXIDE/CN
E4	1	HYDROGEN PEROXIDE ((H2O2)), COMPD. WITH 1,4-DIAZABICYCLO(2.2.2)OCTANE 1,4-DIOXIDE (3:1), DIHYDRATE/CN
E5	1	HYDROGEN PEROXIDE (D218O2)/CN
E6	1	HYDROGEN PEROXIDE (D2O18O)/CN
E7	1	HYDROGEN PEROXIDE (D2O2)/CN
E8	1	HYDROGEN PEROXIDE (D2O2), COMPD. WITH DILITHIUM ETHANEDIOATE (1:1)/CN
E9	1	HYDROGEN PEROXIDE (D2O2), COMPD. WITH DIPOTASSIUM ETHANEDIOATE (1:1)/CN
E10	1	HYDROGEN PEROXIDE (D2O2), COMPD. WITH DIRUBIDIUM ETHANEDIOATE (1:1)/CN
E11	1	HYDROGEN PEROXIDE (D2O2), COMPD. WITH DISODIUM CARBONATE (3:2)/CN
E12	1	HYDROGEN PEROXIDE (D2O2), COMPD. WITH DISODIUM ETHANEDIOATE (1:1)/CN

=> s e3

L13 1 "HYDROGEN PEROXIDE"/CN

=> d l13

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 7722-84-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Hydrogen peroxide (H2O2) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Hydrogen peroxide (8CI)
 OTHER NAMES:
 CN Adeka Super EL
 CN Albone
 CN Albone 35
 CN Albone DS
 CN Anti-Keim 50
 CN Asepticper
 CN Baquashock
 CN CIX
 CN Clarigel Gold
 CN Crestal Whitestrips
 CN Crystacide
 CN Dentasept
 CN Deslime LP
 CN Hioxyl
 CN Hipox

CN Hybrite
 CN Hydrogen dioxide
 CN Inhibine
 CN Lase Peroxide
 CN Lensan A
 CN Magic Bleaching
 CN Metrokur
 CN Mirasept
 CN Nite White Excel 2
 CN NSC 19892
 CN Odosat D
 CN Opalescence Xtra
 CN Oxigenal
 CN Oxydol
 CN Oxyfull
 CN Oxysept
 CN Oxysept I
 CN Pegasyl
 CN Perhydrol
 CN Perone
 CN Peroxaan
 CN Peroxclean
 CN Quasar Brite
 CN Select Bleach
 CN Superoxol
 CN T-Stuff
 CN Whiteness HP
 CN Whitespeed
 CN Xtra White
 FS 3D CONCORD
 DR 8007-30-5, 66554-50-5, 37355-84-3, 218625-72-0
 MF H2 O2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA,
 CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST,
 CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT,
 ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT,
 IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, PS, RTECS*,
 TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATEFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

HO-OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

96271 REFERENCES IN FILE CA (1907 TO DATE)
 815 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 96530 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	21.30	91.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

FILE 'CASREACT' ENTERED AT 14:57:40 ON 17 SEP 2006
SET NOTICE DISPLAY 1
SET NOTICE LOGIN DISPLAY

FILE 'CAPLUS' ENTERED AT 14:59:38 ON 17 SEP 2006
L8 1 S L2 AND SULFONIC ACID
L9 0 S L8 NOT L3
L10 1 S L2 AND SULFONIC

FILE 'REGISTRY' ENTERED AT 15:02:51 ON 17 SEP 2006
E BENZOIC ACID/CN
L11 1 S E3
E BENZALDEHYDE/CN
L12 1 S E3
E HYDROGEN PEROXIDE/CN
L13 1 S E3

FILE 'CAPLUS' ENTERED AT 15:04:35 ON 17 SEP 2006
L14 3274 S L11/PREP
L15 478 S L12 AND L13
L16 70 S L14 AND L15

=> s 116 and nafion
9681 NAFION
31 NAFIONS
9685 NAFION
(NAFION OR NAFIONS)
L17 1 L16 AND NAFION

=> s 117 not 13
L18 0 L17 NOT L3

=> s 116 and sulfonic
77329 SULFONIC
20 SULFONICS
77343 SULFONIC
(SULFONIC OR SULFONICS)
L19 1 L16 AND SULFONIC

=> s 119 not 117
L20 0 L19 NOT L17

=> s 116 and polymer
1085560 POLYMER
883781 POLYMERS
1463857 POLYMER
(POLYMER OR POLYMERS)
L21 2 L16 AND POLYMER

=> s 121 not 13
L22 1 L21 NOT L3

=> d 122 ibib ab

L22 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:539736 CAPLUS
DOCUMENT NUMBER: 137:109980
TITLE: Polysiloxanes containing phosphonic groups used as
effective catalysts and ion exchange resins
INVENTOR(S): Sullivan, Alice Caroline; Wilson, John Robert Howe
PATENT ASSIGNEE(S): Queen Mary & Westfield College, UK
SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055587	A1	20020718	WO 2002-GB69	20020109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1360222	A1	20031112	EP 2002-729441	20020109
EP 1360222	B1	20060906		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004077889	A1	20040422	US 2003-250732	20031121
US 7064226	B2	20060620		
PRIORITY APPLN. INFO.:			GB 2001-470	A 20010109
			WO 2002-GB69	W 20020109

OTHER SOURCE(S): MARPAT 137:109980

AB Silsesquioxanes (I) are produced, where R and R1 are each independently hydrogen, a linear or branched C1-40 alkyl, C2-40 alkenyl or C2-40 alkynyl group, an aryl or C1-40 alkylaryl group or, optionally, a metal ion Mn+ with n being an integer from 1 to 8; the free valences of the silicate oxygen atoms are saturated by one or more of: silicon atoms of other groups in the formula (I), hydrogen, a linear or branched C1-12 alkyl group or by crosslinking agents from the group of R3qM1(OR2)mOk/2 or Al(OR2)3-pOp/2 or R3Al(OR2)2-rOr/2, where M1 is Si or Ti, R2 is a linear or branched C1-12 alkyl group, R3 is a linear or branched C1-6 alkyl group, k is an integer from 1 to 4 and q and m are integers from 0 to 2, so that m + k + q = 4, p is an integer from 1 to 3, r is an integer from 1 to 2, or other known oxo metal bridging systems; x, y and z are integers so that the ratio of x : (y + z), varies from 0.00001 to 100,000 with the fragments [O3/2SiCH(CH2PO(OR)(OR1))CH2CH2SiO3/2]x and [O3/2SiCH2CH2PO(OR)(OR1)]y always present, while the integer z varies from 0 to 200y. These compds. are useful as catalysts for a wide variety of reactions and have the advantages that they can be prepared in a one-pot reaction and the functional group loading can be tailored to be at a required level. The compds. have high chemical and thermal stability, fixed and rigid structures, are insol. in organic solvents, high resistance to aging, and can be easily purified and reused. Thus, trimethoxyvinylsilane and di-Et phosphite were reacted at 120-130° for 40 h in the presence of di-tert-Bu peroxide to produce di-Et ester of 2,4-di(trimethoxysilyl)butylphosphonic acid and di-Et ester of 2-(trimethoxysilyl)ethylphosphonic acid, which were hydrolytically copolymd. in the presence of 1M aqueous HCl. The polymerization was carried out at ambient temperature for 48 h followed by heating to 55° for 100 h to produce silsesquioxanes containing di-Et phosphonate groups, subsequently hydrolyzed in concentrated HCl to afford acidic phosphonic group-containing polymers useful as catalysts or ion exchangers.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:47:17 ON 17 SEP 2006)

FILE 'CAPLUS' ENTERED AT 14:47:30 ON 17 SEP 2006

L1 68 S (PRODUC? OR MAK? OR PREPAR? OR MANUFACTU? OR SYNTHESI?) (S) C
L2 39 S L1 AND CATALYST
L3 1 S L2 AND NAFION
L4 2 S L2 AND POLYMER
L5 1 S L4 NOT L3

FILE 'REGISTRY' ENTERED AT 14:54:18 ON 17 SEP 2006

E PHENYLSELENINIC ACID/CN
L6 1 S E3
E STYRENE/CN
L7 1 S E3

FILE 'CASREACT' ENTERED AT 14:57:40 ON 17 SEP 2006

SET NOTICE DISPLAY 1
SET NOTICE LOGIN DISPLAY

FILE 'CAPLUS' ENTERED AT 14:59:38 ON 17 SEP 2006

L8 1 S L2 AND SULFONIC ACID
L9 0 S L8 NOT L3
L10 1 S L2 AND SULFONIC

FILE 'REGISTRY' ENTERED AT 15:02:51 ON 17 SEP 2006

E BENZOIC ACID/CN
L11 1 S E3
E BENZALDEHYDE/CN
L12 1 S E3
E HYDROGEN PEROXIDE/CN
L13 1 S E3

FILE 'CAPLUS' ENTERED AT 15:04:35 ON 17 SEP 2006

L14 3274 S L11/PREP
L15 478 S L12 AND L13
L16 70 S L14 AND L15
L17 1 S L16 AND NAFION
L18 0 S L17 NOT L3
L19 1 S L16 AND SULFONIC
L20 0 S L19 NOT L17
L21 2 S L16 AND POLYMER
L22 1 S L21 NOT L3

=> s (produc? or mak? or prepar? or manufactu? or synthesi?) (s) carboxylic acid

4334207 PRODUC?
960975 PRODN
530 PRODNS
961155 PRODN
(PRODN OR PRODNS)
4798273 PRODUC?
(PRODUC? OR PRODN)
694641 MAK?
1683402 PREPAR?
125397 PREP
2201 PREPS
127392 PREP
(PREP OR PREPS)
2032585 PREPD
17 PREPDS
2032597 PREPD
(PREPD OR PREPDS)

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128212 PREPG
  12 PREPGS
128223 PREPG
      (PREPG OR PREPGS)
2741868 PREPN
  205696 PREPNS
2897028 PREPN
      (PREPN OR PREPNS)
4809079 PREPAR?
      (PREPAR? OR PREP OR PREPD OR PREPG OR PREPN)
  606035 MANUFACTU?
1048343 MANUF
  1473 MANUFS
1049465 MANUF
      (MANUF OR MANUFS)
  234596 MANUFD
  182433 MANUFG
    1- MANUFGS
  182433 MANUFG
      (MANUFG OR MANUFGS)
1441248 MANUFACTU?
      (MANUFACTU? OR MANUF OR MANUFD OR MANUFG)
1528767 SYNTHESI?
  241610 CARBOXYLIC
    47 CARBOXYLICS
  241629 CARBOXYLIC
      (CARBOXYLIC OR CARBOXYLICS)
  4212489 ACID
  1540685 ACIDS
  4707010 ACID
      (ACID OR ACIDS)
  222553 CARBOXYLIC ACID
      (CARBOXYLIC(W)ACID)
L23      87059 (PRODUC? OR MAK? OR PREPAR? OR MANUFACTU? OR SYNTHESI?) (S)
          CARBOXYLIC ACID

=> s l23 and aldehyde
    106747 ALDEHYDE
    103439 ALDEHYDES
    165451 ALDEHYDE
          (ALDEHYDE OR ALDEHYDES)
L24      5118 L23 AND ALDEHYDE

=> s l24 and catalyst and polymer
    734947 CATALYST
    737630 CATALYSTS
    943403 CATALYST
          (CATALYST OR CATALYSTS)
    1085560 POLYMER
    883781 POLYMERS
    1463857 POLYMER
          (POLYMER OR POLYMERS)
L25      101 L24 AND CATALYST AND POLYMER

=> s l25 and nafion
    9681 NAFION
    31 NAFIONS
    9685 NAFION
          (NAFION OR NAFIONS)
L26      1 L25 AND NAFION

=> s l26 not 13

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L27 0 L26 NOT L3

=> s 125 and sulfonic
77329 SULFONIC
20 SULFONICS
77343 SULFONIC
(SULFONIC OR SULFONICS)

L28 5 L25 AND SULFONIC

=> s 125 and sulfonic acid
77329 SULFONIC
20 SULFONICS
77343 SULFONIC
(SULFONIC OR SULFONICS)
4212489 ACID
1540685 ACIDS
4707010 ACID
(ACID OR ACIDS)
72593 SULFONIC ACID
(SULFONIC(W)ACID)

L29 5 L25 AND SULFONIC ACID

=> s 129 not 13

L30 4 L29 NOT L3

=> d 130 ibib ab 1-4

L30 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:821179 CAPLUS

DOCUMENT NUMBER: 145:235864

TITLE: Treatment composition comprising crosslinking agents
and anti-hydrogen-bonding agents for making
acquisition fluff pulp in sheet form

INVENTOR(S): Hamed, Othman A.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 16pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006184147	A1	20060817	US 2005-58213	20050216
WO 2006088995	A2	20060824	WO 2006-US5417	20060216
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2005-58213 A 20050216

AB The present invention relates to a treatment composition for making acquisition fluff pulp in sheet form, having a crosslinking agent and an anti-hydrogen-bonding agent. The crosslinking agent may be a

polycarboxylic acid, aldehyde, urea-based derivs. or a mixture thereof. The anti-hydrogen-bonding agent may be a silicon polymer terminated with at least one quaternary amine functional group. A method of making acquisition fluff pulp using the treatment composition involves treating a cellulosic base fiber with a treatment composition solution to impregnate the fiber with the treatment composition, and then drying and curing the impregnated fiber. The resultant acquisition fluff pulp may be utilized in an acquisition layer and/or an absorbent core of an absorbent article intended for body waste management.

L30 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:430645 CAPLUS
DOCUMENT NUMBER: 144:192198
TITLE: Selective polymer-assisted product
sequestration for the generation of combinatorial
libraries of 1,3-thiazines
AUTHOR(S): Strohmeier, Gernot A.; Reidlinger, Claudia; Kappe, C.
Oliver
CORPORATE SOURCE: Institute of Chemistry, Organic and Bioorganic
Chemistry, Karl-Franzens University Graz, Graz,
A-8010, Austria
SOURCE: QSAR & Combinatorial Science (2005), 24(3), 364-377
CODEN: QCSSAU; ISSN: 1611-020X
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Combinatorial approaches for the solution-phase synthesis of diverse 1,3-thiazine-5-carboxylate libraries, e.g. I, are described. Knoevenagel condensation of β -ketoesters and aldehydes utilizing a polymer-supported catalyst furnished the anticipated enones, e.g. II, which were subsequently reacted with thioureas to generate 1,3-thiazine heterocycles among various byproducts. In the key step, the 1,3-thiazines were selectively sequestered by a polymer-bound sulfonic acid. Subsequent base-induced release from the polymer (catch and release) produced 24 1,3-thiazine products in yields up to 79%, good to excellent purities and in high diversity. In contrast to the polymer-bound acid-mediated reaction, this method tolerates more complex building blocks. Furthermore, polymer-assisted methods for N2-derivatization were performed, including reactions with activated carboxylic acids, sulfonyl chlorides and isocyanates.

REFERENCE COUNT: 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:511777 CAPLUS
DOCUMENT NUMBER: 109:111777
TITLE: Phenolic resin foam compositions for thermal
insulators
INVENTOR(S): Kashima, Koichi; Nakamura, Tsutomu; Miyazaki,
Yoshiyuki; Sasaki, Tetsuo; Shimada, Shigeru
PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63020338	A2	19880128	JP 1986-163887	19860714

PRIORITY APPLN. INFO.:

JP 1986-163887

19860714

AB Title compns. giving uniform foams with high mech. strength contain benzylic ether-type phenolic resins (prepd. by treating phenols with aldehydes in the presence of metal salts of organic carboxylic acids and inorg. acids), polyisocyanates, aromatic sulfonic acids, blowing agents, and foam stabilizers. Thus, phenol 1200, 92% paraformaldehyde 540, Pb naphthenate 6, and Zn borate 1.2 parts were treated at 100° for 11 h to prepare a benzylic ether-type phenolic resin [viscosity 40,000 cP (25°)], 100 parts of which was stirred with Tween 40 3, Freon R-11 10, 70% aqueous p-toluenesulfonic acid 20, and Millionate MR 200 (crude MDI) 10 parts, blown, and heated at 80-90° for 2-5 min to obtain a foam with d. 47.0 kg/m³ and compressive strength 2.0 kg/cm², showing no brittleness, friability or shrinkage.

L30 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1968:30721 CAPLUS

DOCUMENT NUMBER: 68:30721

TITLE: Hydrolysis of esters with polymer sulfonic acids. VIII. Hydrolysis of ethyl anthranilate with poly(vinyl butyral sulfonic acid)

AUTHOR(S): Sakurada, Ichiro; Ono, Tomiyoshi; Sakaguchi, Yasuyoshi

CORPORATE SOURCE: Univ. Kyoto, Kyoto, Japan

SOURCE: Kobunshi Kagaku (1966), 23(259), 853-8

CODEN: KOKAAM; ISSN: 0023-2556

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB For the hydrolysis of Et anthranilate (I), poly(vinyl butyral sulfonic acid) (II) is a more effective catalyst than HCl and poly(styrenesulfonic acid); the carboxylic acid produced by the hydrolysis with II shows an abnormally high pKa value. Some poly(vinyl acetal sulfonic acids), except II, acetal sulfonic acids of low-mol. polyhydric alcs., and benzaldehydesulfonic acid show similar behavior to that of II for hydrolysis of I. In the hydrolysis of I with HCl, addition of neutral aldehydes such as butyraldehyde accelerates the hydrolysis, and raises the pKa value of the carboxylic acid produced by the hydrolysis. Me anthranilate and Me N-methylantranilate are also more rapidly hydrolyzed with II than with HCl. Me N,N-dimethylantranilate is rapidly hydrolyzed by autocatalysis even in the absence of a catalyst, and the carboxylic acid produced shows an abnormally high pKa value. During the hydrolysis of I with II, the aldehyde liberated from II forms a Schiff's base with amino groups of I, and the base hydrolyzes autocatalytically.